

New York State Department of Transportation

Yellow Flag NB22CTW014

By: Rehan Afridi

Flag Date: April 11, 2022

Superseding Information:

This flag supersedes: YF NB2158W005

Structure Information

BIN: 1065318

Feature Carried: 278I278IX2M23027

Feature Crossed: 6TH AVENUE

Orientation: 8 - NORTHWEST

Region: 11 - NEW YORK CITY

County: KINGS

Political Unit: City of NEW YORK

Approximate Year Built: 1962

Posted Load Matches Inventory : Yes

Bridge Load Posting (Tons) : Not Posted for Load

Primary Owner: New York State Department of Transportation

Primary Maintenance Responsibility: 12 - State - Subcontracted to another Party

Typical or Main Span Type: 3 - Steel, 02 - Stringer/Multi-Beam or Girder

This Bridge is not a Ramp

Number of Spans: 322

Verbal Notification Information

Person Notified: Heinz Joachim, P.E.

Date: April 11, 2022 10:00:00 AM

Of: NYSDOT Region 11

Signature Information

Signature: Rehan Afridi, P.E. 075185

Date: April 28, 2022

Reviewed By: Robert Kemp

Date: April 28, 2022

Attachments: 6

Flagged Elements

Parent Element	Element	Total Quantity	Unit
Span Number : 177			
	107 - Steel Open Girder/Beam	917	ft
	PR831 - Steel Beam End	40	each

Flagged Condition Description

This Yellow Flag No. NB22CTW014 supersedes previously issued Yellow Flag No. NB2158W005.

Location: Span 177, Girder G1 at Pier 176

Description: The end of Girder G1 in Span 177 at Pier 176 exhibits 1-5/8" long diagonal crack in the girder web stemming from the bottom of the bottom cope of the girder. This condition is the same as reported in the last inspection. The girder is framed into the web of the pier.

Notes:

1. Girder G1 exhibits average of 15%-20% section loss (previously 15%) for the full height of the web for 3" width adjacent to the connection angles, and at the lower web above the bottom flange for 24" long x 3" high.
2. The bottom of the connection angles exhibit two corrosion holes for 5/8" diameter (previously 1/2") and 3"L x 1"H (previously 3"L x 1/2"H) at the left side and one corrosion hole for 3"L x 1"W (previously 3"L x 1/2"H) at the right side with up to 30% section loss for the bottom 4" of both connection angles.
3. The right face of the girder has a previously installed steel plate bolted to the girder which continues to the end of the girder between both connection angles which is in good condition.
4. The adjacent girder G2 is in fair condition. The left side of the web exhibits moderate to heavy localized corrosion and 1/8" pitting in an area 6"H x up to 24"L at the end of the girder web in the upper and lower sections near the connection angle. The right side of the web exhibits moderate localized corrosion near the top and bottom flanges.
5. The adjacent stringer S1 has repair plates and is in good condition.
6. The flagged location was accessed using 30ft bucket truck and double left lane closure as the condition is located above the center lane on 3rd Avenue WB roadway.

Flag Photographs

Photo Number: 1

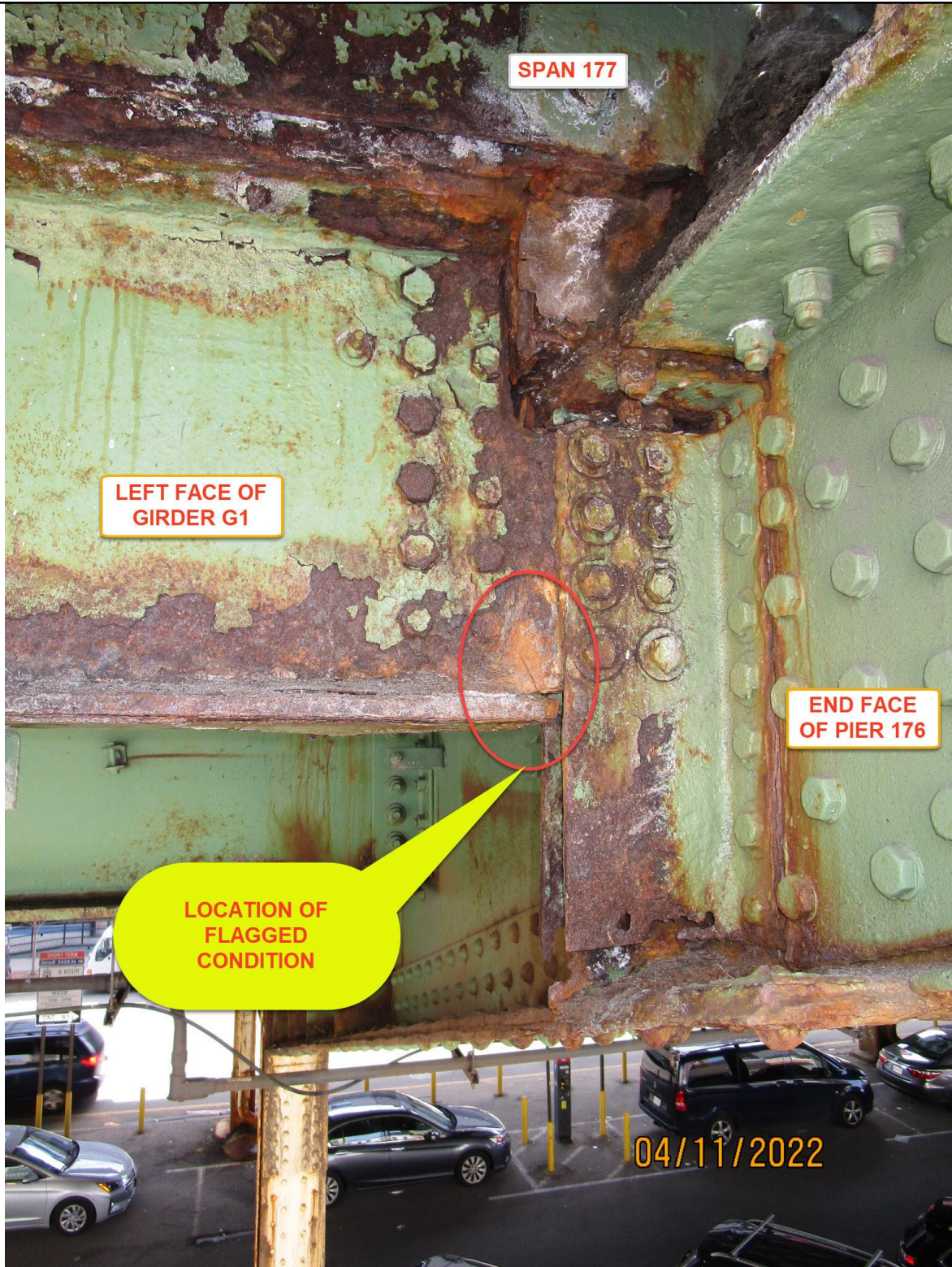
Photo Filename: Photo 1-RA 613_0548.jpg



Attachment Description: General view of the flagged condition at Girder G1 in Span 177 at Pier 176. Looking Begin.

Photo Number: 2

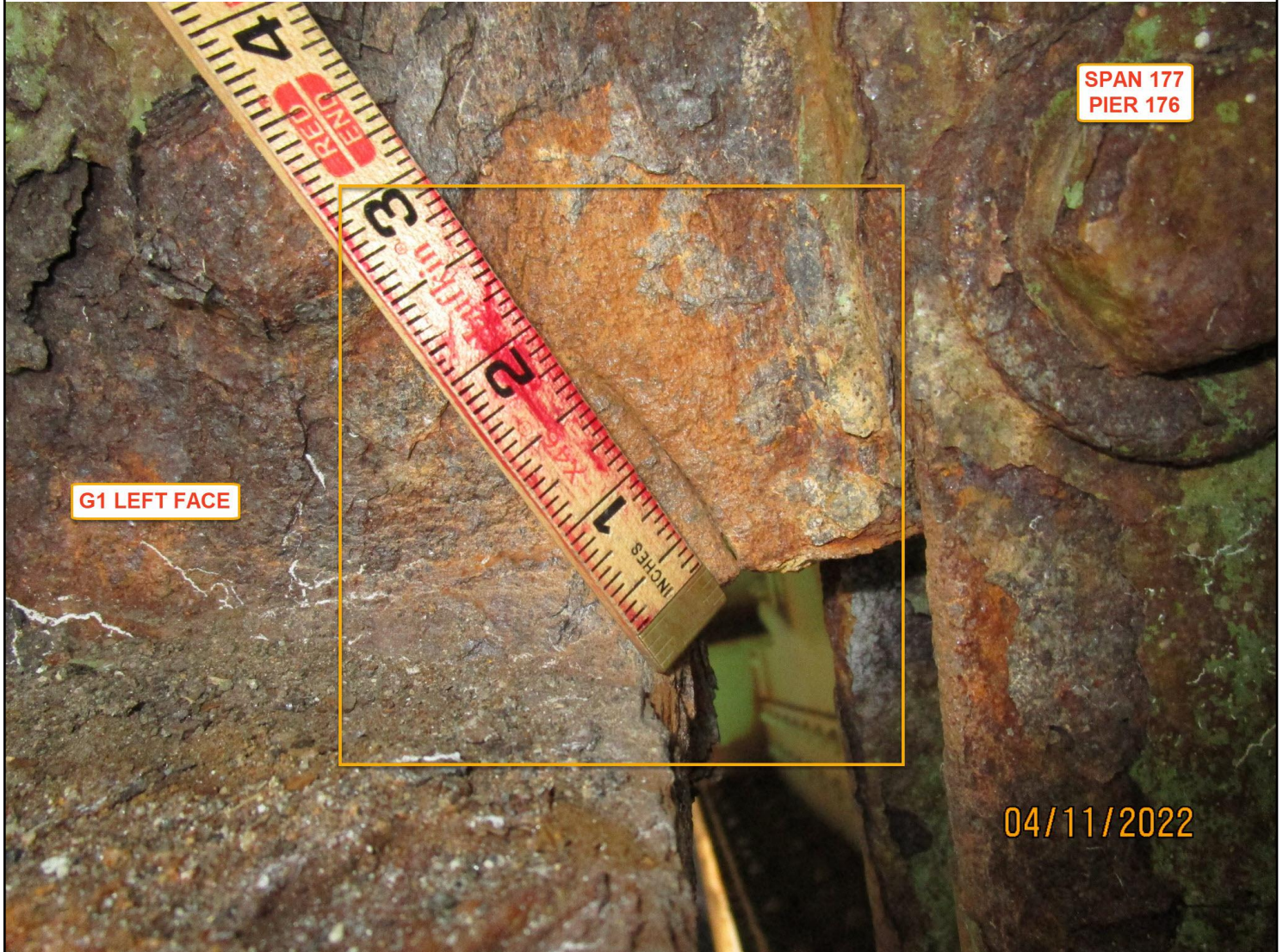
Photo Filename: Photo 2-RA 613_0551.jpg



Attachment Description: Close up general view of the flagged condition at Girder G1 in Span 177 at Pier 176. Looking Right.

Photo Number: 3

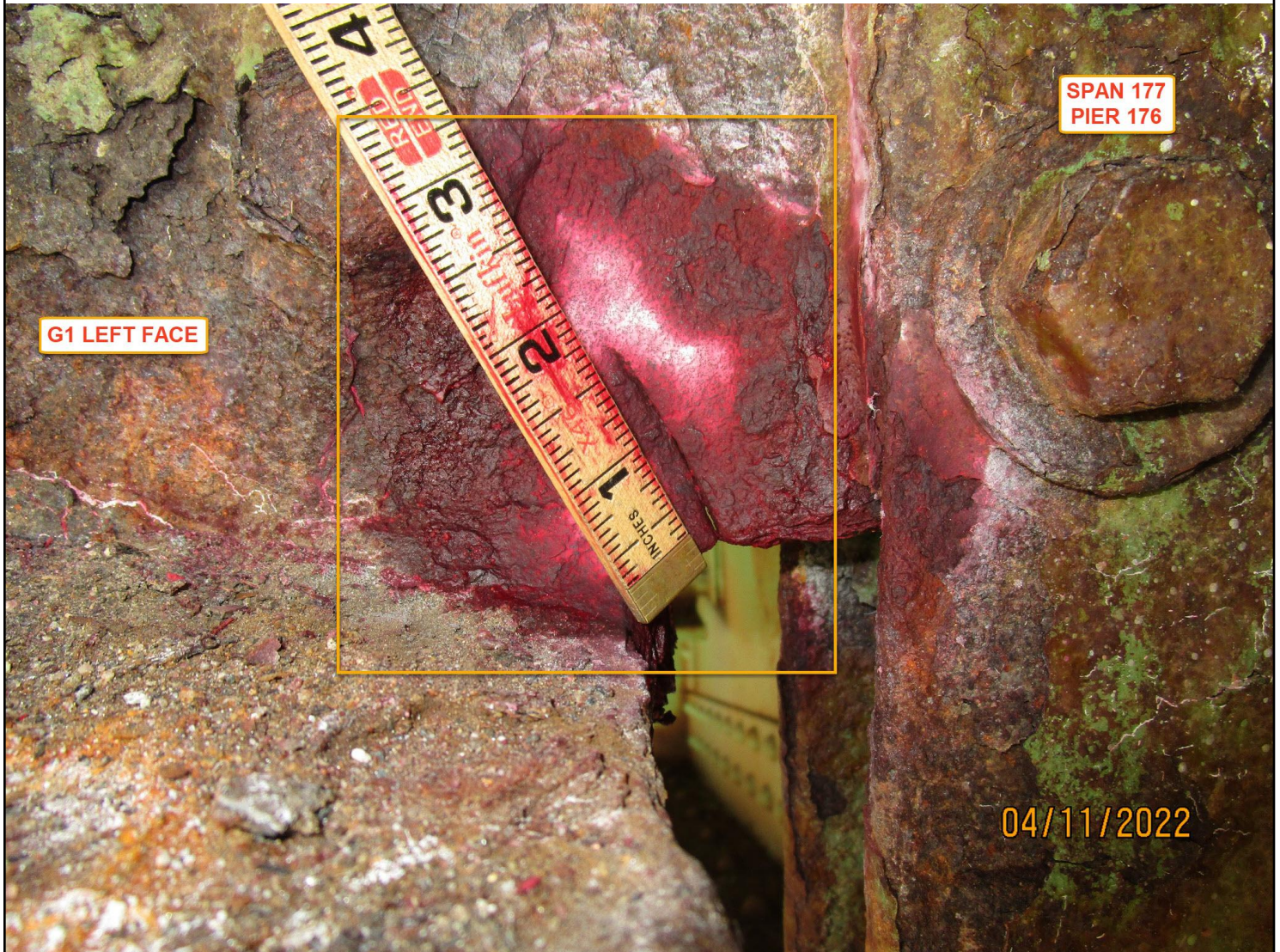
Photo Filename: Photo 3-RA 613_0556.jpg



Attachment Description: The left face of Girder G1 in Span 177 at Pier 176. The girder exhibits 1-5/8" long crack in the web stemming at the bottom cope of the girder. Looking Right.

Photo Number: 4

Photo Filename: Photo 4-RA 613_0566.jpg



Attachment Description: The left face of Girder G1 in Span 177 at Pier 176. The girder exhibits 1-5/8" long crack in the web stemming at the bottom cope of the girder, after dye penetrant test. Looking Right.

Photo Number: 5

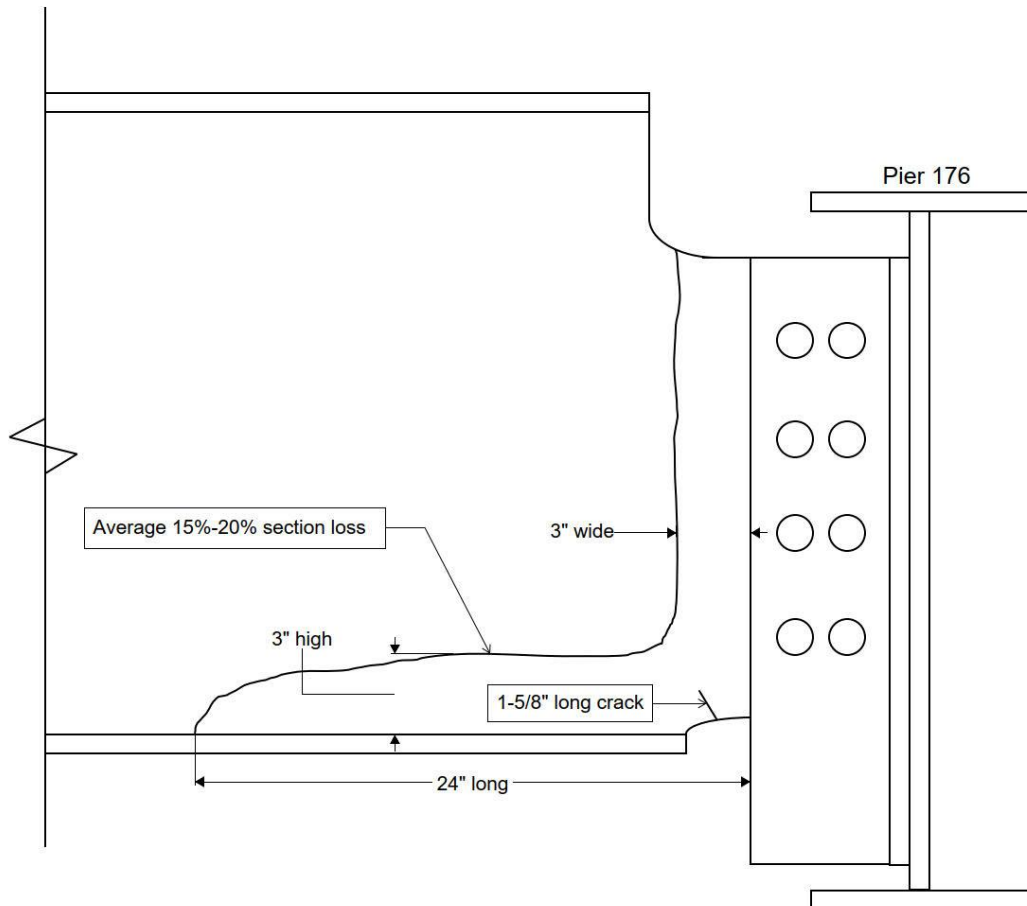
Photo Filename: SN 177 G1 at Pier 176 Sketch.jpg

Left Face of Girder G1 Sketch in Span 177 at Pier 176

N.T.S.

DATE 04/11/2022

TEAM LEADER Rehan Afridi, P.E. ASSISTANT TEAM LEADER Marcos Perez

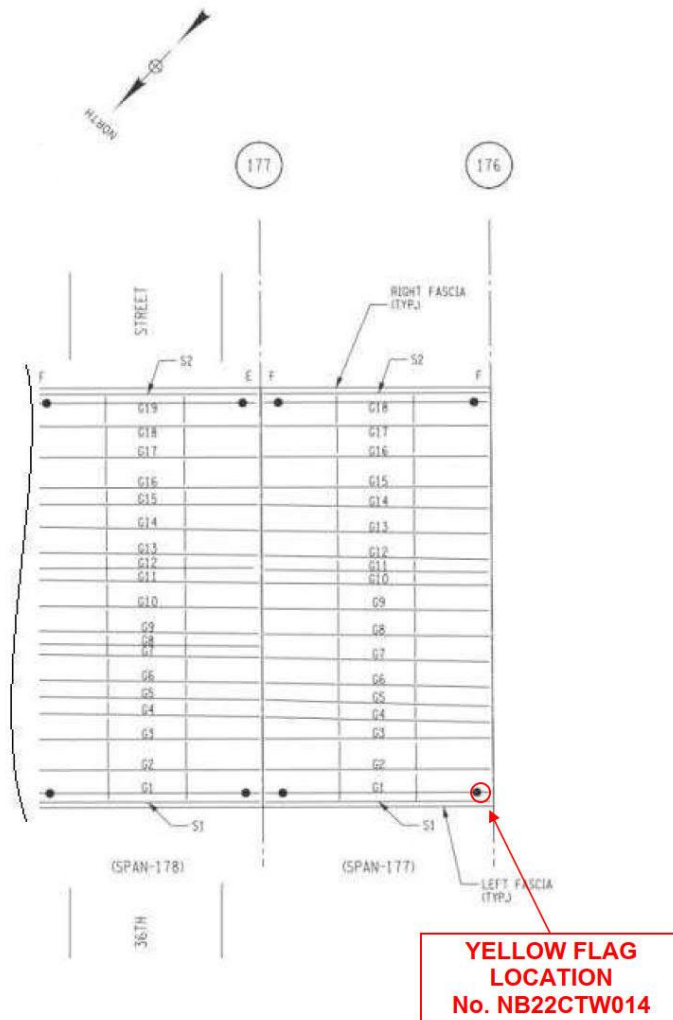
Notes:

-The defects at the bottom of the connection angles are not shown since they are not relevant to the flagged condition at the girder.

Attachment Description: SN 177 G1 at Pier 176 Sketch

Photo Number: 6

Photo Filename: SN 177 G1 at Pier 176 Framing Plan.jpg



Attachment Description: SN 177 G1 at Pier 176 Framing Plan